EDEL'SHTEYN, G.L., prof.; SMIRNOVA, Ye.Yo.; GORBUNOVA, Z.K.

Etiology of scoliosis and kyphoscolicsis. Zdrav. Kazakh. 21 no.1:
12-16 '61.

1. Iz kafedry travmatologii i ortopedii (zav. - professor G.L.
Edel'shteyn) Kazakhskogo meditsinskogo instituta i Sverdlovskogo
instituta travmatologii i ortopedii.

(SPINE.-ABNORMITIES AND DEFORMITIES)

EDEL'SHTEYN, G. L., prof.; UDALOVA, N. F., nauchnyy sotrudnik; GORB NOVA, Z. K., nauchnyy sotrudnik; SMIRNOVA, Ye. Ye., starshiy nauchnyy sotrudnik

X-ray characteristics of lateral curvature of the spine. Zdrav. Kazakh. no.4:19-23 '62. (MIRA 15:6)

1. Iz Sverdlovskogo Nauchno-issledovateliskogo instituta travmatologii i ortopedii (direktor - kandidat meditsinskikh nauk
Z. P. Lubegina) i Kazakhskogo meditsinskogo instituta (direktor professor R. I. Samarin)

(SPINE__ABNORMITIES AND DEFORMITIES)

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| Idered joints resisting corrosion aken in the following percent rel 5 ± 0.3 ; tin—the remainder. | A |
| lder containing tin, antimony, co | pper, |
| opper, silver | |
| tovarnyye znaki, no. 12, 1966, 13 | 5 |
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| ova, Yu. A. | |
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| | ova, Yu. A. ss 49, No. 183037 tovarnyye znaki, no. 12, 1966, 13 opper, silver lder containing tin, antimony, co ldered joints resisting corrosion aken in the following percent rel |

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KLARK, G.B.; GOPIUS, A.Ye.; SMIRNOVA Yu.A.

Effect of climatic conditions on the corrosion cracking of brass.

Trudy Inst.fiz.khim. 8:110-129 :60. (MIRA 14:4)

(Brass--Corrosion) (Corrosion and anticorrosives--Climatic factors)

L 12979-63 EFR/EMP(j)/EPF(c)/EWT(m)/BDS AFFTC/ASD Ps-4/Fr-4/Pc-4 RM/WM ACCESSION NR: AP3000524 S/0020/63/150/002/0359/0360

AUTHOR: Zubov, P. I.; Sukhareva, L. A.; Smirnova, Yu. P.

TITLE: Influence of internal stresses on "longevity" of polymer coatings

SOURCE: AN SSSR. Doklady, v. 150, no. 2, 1963, 359-360

TOPIC TAGS: internal stresses, polymer coatings, aging

ABSTRACT: Dependence of duration on the adhesive stress of polyester coatings. has been measured by optical method using automatic recording apparatus, described by P. I. Zubov and L. A. Lepilkina (Vestnik AN SSSR, no. 3, 49, 1962). Authors conclude by stating that there is a linear relationship between the duration of adhesion of a coating and internal stresses during a change in the sublayer's stresses within the limits from 30 to 8 kilograms per square cm. Orig. art. has: 3 figures and 1 formula.

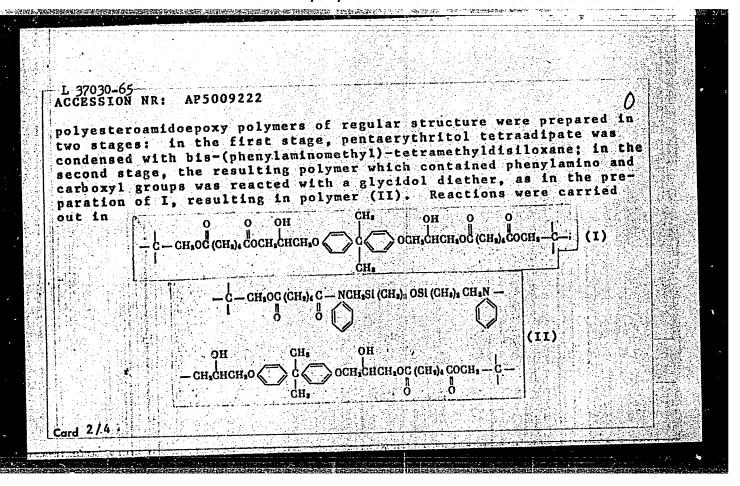
ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry, Academy of Sciences SSSR)

SUBMITTED: 24Jan63

SUB CODF: CH

DATE ACQ: 12Jun63 NO REF SOV: 007 ENCL: 00 OTHER: 001

L 37030-65 EPA(s)-2/EWT(m)/EPF(c)/EWP(v)/EPR/EPA(w)-2/EWP(j)/T Pc-4/Pab-10/Pr-4/Ps-4/Pt-10 WW/RM \$/0020/65/161/001/0099/0102 ACCESSION NR: AP5009222 AUTHOR: Andrianov, K. A. (Academician); Yemel'yanov, V. N.; Sukhareva, L. A.; Smirnova, Yu. P.; Zubov, P. I. TITLE: Synthesis and physical and mechanical properties of films from polymers with regular structure SOURCE: AN SSSR. Doklady, v. 161, no. 1, 1965, 99-102 TOPIC TAGS: polymer, regular structure, regular structure polymer, epoxy polymer, polyesteroepoxy polymer, silicon containing polyesteroamidoepoxy polymer ABSTRACT: The purpose of the work was to synthesize and study polyesteroepoxyband silicon-containing polyesteroamidoepoxy polymers of a regular cyclonet structure, which could be used for coatings, pelectric insulation, or as binders for glass-reinforced plastics. Polyesteroepoxy polymers were obtained by reacting pentaerythritol tetraadipate with glycidol-hydroquinone or with glycidol-diphenylolpropane ("Bisphenol A") (See I below) diethers. Silicon-containing Card 1/4



L 37030-65 ACCESSION NR: AP5009222 films on a metal surface. Polymer (III) with an irregular structure was obtained by simultaneous condensation of pentaerythritol, adipic acid and glycidol-Bisphenol A diether. Mechanical and electrical properties of I, I, and III were studied to determine the effect of the structure on these properties. The dependence of inner stresses, adhesion, and elastic modulus on the thickness of the film was found. The above mechanical properties and the tensile strength of I, II, and III and of a commercially used epoxy resin (ED-5), Cured with polyethylenepolyamine, were compared. It was found that the tensile strength of polymers with the regular structure is 20-50% higher than that of the irregular polymer, but 1.5-2 times lower than that of the commercially used epoxy resins. However, inner stresses in the coatings from the new film-forming regular polymers are considerably lower. The best physical and mechanical properties are displayed by II films, which have the maximum curing rate, minimum inner stresses and a high tensile strength and adhesion. Films from polymers with the regular structure are moisture proof. Thermal stability of I at 200C is: Card 3/4

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EWT(m)/EWP(v)/EWP(j)/T/ETC(m)-6 IJP(c) W./RM UR/0191/65/000/010/0031/0034 28 L 22000-66 678. 674. 06-419:677. 521. 01. 539. 219. 2 13 ACCESSION NR: AP5024504 AUTHOR: Sukhareva, L. A.; Smirnova, Yu. P.; Zubov, P. I.; Zamotova, A. V.; Khvilivitskiy, R. Ya. TITLE: Internal strain in reinforced systems based on polyester acrylate binders SOURCE: Plasticheskiye massy, no. 10, 1965, 31-34 TOPIC TAGS: fiberglass, glass cloth, epoxy plastic, polyester plastic, adhesion, internal stress, bending strength, rupture strength ABSTRACT: The effect of curing conditions, binder composition and surface treatment of the reinforcing glass on the internal strain, mechanical, and adhesive properties of fiberglass was studied. Two curing rates were used--(1) gradual heating for 19 hours to 200 C and then holding at 200 C for 10 hours, and (2) heating to 200 C in 2 hours and holding for 20 hours. Glass cord treated with paraffin emulsion or with vinyltriethyoxysilane and glass cord heat treated at 400-450C were used for reinforcing. A two-component system (epoxy resin and polyester acrylate MD) or a three-component system (epoxy, MD and an unsaturate ed carhoxyl-containing compound) were used as binders. Internal strain was

L 22000-66

ACCESSI ON NR: AP5024504

greater across the warp than along the warp. Greater internal strains were produced by the slower curing method. The mechanical characteristics of fiberglass cured by method (2) were generally higher. Physical-mechanical properties and internal strain were lower in fiberglass made of the three-component binder. Paraffin emulsion had little effect on internal strain, while the silane coating increased internal strain in the fiberglass made of the three-component binder. The strength properties of the fiberglass depend on the ratio of the internal strain values to the adhesion of the binder to the glass fiber surface. Fiberglass made of resin based on the carboxyl-containing compound, which has greatest internal strain and least adhesion, is weakest. Greatest strength was obtained with the three-component binder applied to glass cloth treated with vinyltriethyoxysilane, where adhesive strength exceeds 200 kg/sq cm and the glass is torn out when the sample is broken. Orig. art. has: 8 figures and 3 tables

ASSOCIATION: None

SUBMITTED: 00 NR REF SOV: 003

ENCL: 00

SUB CODE: II

OTHER: 000

Card 2/2 BK

SVYROURHINA ... (Tentugorad); EMIRNOVA, Z.A. (Leningrad); TARASONA, N.N.

1/2 xophusmosis in a 3 1/2-month-old infant. Arkh.pet. 27 no. 1376-79 (MIRA 18:8)

1. Lubiratoriya patologii nerwnoy sistemy (zav. - prof. Yu.M. Zhabotinskiy) otdela patologicheskoy anatomii (zav. - akademik N.W.Anichkov) Instituta eksperimental noy meditsiny AMN SSSR; Pstologoanatominheskoye otdeleniye (zav. - Z.A.Smirnova) i detskoye otdeleniye (zav. N.M.Tarasova) leningradskoy Oblastnoy klinicheskoy bol'nitsy; kafeira pakhiatrii Voyenno-meditsinskoy ordena lenina akademii imenl S.M.Kirova (zav. - prof. A.A.Fortnov).

PONOMAREV, A.A.: SMIRHOVA, Z.A.

Anatomicoelectrocardiographic parallels in chronic cor pulmonale. Vrach. delo no.1:46-48 Ja'64 (MIRA 17:3)

1. Kafedra gospital'noy terapii (nachal'nik - deystvitel'nyy chlen AMN SSSR, prof. N.S. Molchanov) Voyenno-meditsinskoy akademii imeni S.M.Kirova i patologoanatomicheskoye otdeleniye (zav. - Z.A. Smirnova) Leningradskoy oblastnoy klinicheskoy bol'-nitsy.

MALEYEV, Yevgeniy Fedotovich; RUDICH, K.N., red.; SMIRNOVA, Z.A., red.; SHMAKOVA, T.M., tekhm. red.

[Volcanoclastic rocks] Vulkanoklasticheskie gornye porody. Moskva, Gosgeoltekhizdat, 1963. 167 p. (MIRA 16:12) (Volcanic ash, tuff, etc.)

SHOHERBA, H.L. prof.; CHIMIOVA, Z.A.; GOLOTH, V.F.

Clinical variations of amyloidesis. Sov. med. 27 no.11:19-24 N 1e3 (MTM. 18:1)

1. In propedenticheskoy terapevticheskoy kliniki (ispelnyayushehiy obyazamesti zaveduyushehego - prof. M.L. Shcherba) I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova i Leningradskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach V.M.Sukhobskiy).

NIKOLAYEV, Nikolay Ivanovich; SMIRNOVA, Z.A., red.; GUROVA, Q.A., tekhn. red.

[Recent tectonic movements and their evidence in the structure and relief of the territory of the U.S.S.R.] Neotektonika i ee vyrazhenie v strukture i rel'efe territorii SSSR; voprosy revyrazhenie v strukture i rel'efe territorii strukture i rel'efe territorii SSSR; voprosy revyrazhenie v strukture i rel'efe territorii strukture

SIL'VESTROY, V.P.; SMIRNOVA, Z.A.

Errors in the diagnosis and treatment of some complications of antibacterial therapy. Kaz.med.zhur. no.4:22-27 Jl-Ag '62. (MIRA 15:8)

1. Kafedra gospital'noy terapii (nachal'nik - deystvitel'nyy chlen AMN SSSR, prof. N.S.Molchanov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova i Leningradskaya oblastnaya klinicheskaya bol'nitsa (glavnyy vrach - A.P.Yegorova).

(ANTIBIOTICS--TOXICOLOGY)

SMIRNOVA, Z,A.

Two cases of gastrogenic tetany. Sov.med. 25 no.2:136-138 F '61. (MIRA 14:3)

1. Iz kliniki gospital'noy khirurgii (zav. - zasluzhennyy deyatel' nauki Dagestanskoy ASSR prof.M.T.Nagornyy) Dagestanskogo meditsinskogo instituta (direktor - dotsent M.M.Maksudov) i gorodskoy klinicheskoy bol'nitsy (glavnyy vrach B.E.Kot).

(TETANY) (PYLORIC STENOSIS)

s/070/62/007/005/008/014 E132/E460

Mokiyevskiy, V.A., Smirnova, Z.A., Afanas'yev, I.I.

Joining crystals of lithium fluoride by a "dry" method AUTHORS:

PERIODICAL: Kristallografiya, v.7, no.5, 1962, 768-772 + 1 plate When two polished crystal surfaces are brought into contact, processes connected with the ordering of the structure lead to the growing together of the crystals. Simultaneously annealing takes place. Hence, birefringence connected with the deformation takes place on joining the surfaces together, because of the loading on surfaces of small radius of curvature, boundary surface is rarely found. then slipping occurs and the wide range of orientations of the blocks leads to the formation of a large number of negative crystals at the interface. Large radii of curvature of the surfaces brought together and parallel orientation of the components appear to be the conditions for successful welding. The loading necessary has to be determined experimentally and the uniform distribution of load is one of the necessary conditions for successful joining. The time needed depends on temperature but for the best results subsequent annealing is more important Card 1/2

CIA-RDP86-00513R001651710007-3 "APPROVED FOR RELEASE: 08/31/2001

SMIRNOVA, Z. A.

Cand Med Sci - (diss) "Medicinal prophylaxis of increased blood loss in subsequent and early post-natal period." Khar'kov, 1961. 15 pp; (Khar'kov State Med Inst); 230 copies; free; (KL, 7-61 sup, 262)

L.

SMIRNOUA, Z.A.

USSR/Meadow Cultivation.

Abs Jour : Ref Zhur - Biol., No 21, 1958, 95876

Author : Smirnova, Z.A.

Inst : Petrozavodskiy University.

Title : Influence of Mineral Fertilizers on Pasture Grass Stand.

Orig Pub : Sb. nauchn. rabot stud. Petrozavodskogo un-ta, 1957, vyp.

4, 111-120.

Abstract : No abstract.

Card 1/1

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710007-3

SMIRNOVA, Z.A. 16709 5/190/62/004/006/016/026 B124/E138 Dokukina, A. F., Yegorova, Ye. I., Kazennikova, G. V., Katon, M. M., Kacheshkov, K. A., Smirnova, Z. A., Talalayeva, T. V. 10 8166 AUTHORS: Synthesis and polymerization (copolymerization) of fluoron-nubstituted styrenes. 1. Copolymerization of fluoron-nubstituted styrenes with vinyl monomers TITLE: PARIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 6, 1962, 885 -TEXT: This paper describes the authors' experiments in the production and characterization of the copolymers of α , β , β ! -trifluoro styrene with 2,5dimethyl styrene and methyl methacrylate; o-, m- and p-methyl-a, β , β '-, triffuoro styrene with styrene, a, β -diffuoro- β -chloro styrene with triffuoro styrene with atyrene, a, 5-diffuoro-6'-chloro styrene with styrene, and 2,5-diffuoro styrene. The emulsion used for copolymerization consisted of 80-85 % water, 2.5 emulsifier (sodium stearate or deate), and 0.5 % persulfate initiator. The monomer mixture, which was added dropwide after heating to 80-90°C, contained assisobutyric acid dinitrile (0.5 5) as initiator. Eleven copolymers of the above monomers were obtained. Their compositions and properties are given in Table 2. The heat Card 1/N

\$/190/62/004/006/016/026

Synthesis and polymerization ... B124/B136

resistance of the copolymers thus produced increases with the fluorostyrene content in the copolymer. An exception is that of a,p-difluoroW-chlore styrene with styrene, the heat resistance of which is 4°C
higher than that of polystyrene produced under similar conditions. This
is probably due to the lew concentration of substituted styrene (16 mole,)
in the copolymer, and to the extremely low molecular weight of the product (1q1 = 0.05). There are 2 tables. The English-language references
are: D. Livingstonn, J. Polymer Sci., 20, 485, 1956; M. Prober, J. Amer.
Chem. Soc., 75, 968, 1953.

ASSOCIATION: Institut ysokomolekulyarnykh soyedineniy AN SSSR (Institute of High-malecular Compounds of the AS USSR)

SUBSTITUTE April 11. 1961

Table 2: Copolymeriza on time, yield, composition and intrinsic viscosities of the copolymers. Legend: (A) length, hours; (B) copolymer yield, (C) composition of copolymer (moley); (D) intrinsic viscosities of the benzene solutions of copolymers at 20°C; (E) copolymers of Card 2/6°

ACCESSION NR: AP4042184

11:

\$/0190/64/006/007/1187/1189

AUTHOR: Yegorova, Ye. I.; Smirnova, Z. A.; Dokukina, A. F.

TITLE: Synthesis and polymerization (copolymerization) of fluorinated styrenes. III. Preparation and properties of copolymers of styrenes fluorinated in the vinyl group with vinyl monomers

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 7, 1964, 1187-1189

TOPIC TAGS: copolymer, copolymerization, fluorinated styrene, vinyl monomer, thermoplastic copolymer, dielectric copolymer, hest-resistant copolymer, alpha.beta.beta-trifluorostyrene—2.5-dimethylstyrene copolymer

ABSTRACT: The following new copolymers of fluorinated styrenes with vinyl monomers have been synthesized: $\alpha, \beta, \beta-t$ rifluorostyrene with styrene, 2.5-dimethylstyrene, or 2.5-difluorostyrene; 4-methyl- α , $\beta, \beta-t$ rifluorostyrene with styrene or 2.5-dimethylstyrene; and 3-methyl- $\alpha, \beta, \beta-t$ rifluorostyrene, β -fluorostyrene, or α -(difluoromethyl) styrene with styrene. The copolymerization was conducted either in emulsion at 60C (initiators, potassium persulfate and 1/2

ACCESSION NR: AP4042184

azobisisobutyronitrile), or in the liquid phase: 1) with a stepwise increase of temperature from 50 to 170C or 2) at 60C (initiator, properties of the copolymers are described. The synthesized copolymers are thermoplastics and dielectrics. They dissolve readily in organic solvents. Emulsion copolymerized products have a higher in the liquid phase. The highest heat resistance than those copolymerized by α, β,β-trifluorostyrene—2,5-dimethylstyrene copolymers. "The authors express their deep appreciation to M. M. Koton for valuable in whose laboratory the monomers were synthesized." Orig. art. has:

ASSOCIATION: Leningradskiy polytekhnicheskiy institut im. M. I. Kalinin (Leningrad Polytechnic Institute)

SUBMITTED: 09Apr62

ATD PRESS: 3055

ENCL: 00

SUB CODE: GC, MT

NO REF SOV: 004

OTHER: 000

Card 2/2

L 31155-66 ACC NR: AP6003423

at various compositions were investigated. Graft copolymers of styrene with styrene copolymers of I, II, and III were produced. Investigated copolymers were prepared by free radical polymerization in bulk, in emulsion, and in solution, as described by M. M. Koton, K. A. Kocheshkov, I. A. Gorshkova, A. F. Dokukina, and Ye. M. Panov (Kokl. AN SSSR, 158, 5, 1120, 1964). Solubility, thermal stability, viscosity limits, and density of copolymers were determined, and their IR spectra are described. Copolymers obtained in bulk process were insoluble and thermally unstable, those prepared in solution were soluble and more thermally stable (1000), while the emulsion process yielded insoluble and thermally very stable products. The authors express their gratitude to K. A. Kocheshkov and Ye. V. Kuvshinsky for valuable comments during evaluation of this work. Orig. art. has: 1 table, 2 figures, and 3 structures.

SUB CODE: 07/ SUBM DATE: 25Feb65/ ORIG REF: 003

Card 2/2 ____

| / L 11543-66 EVT(1)/EWT(m)/T/EWP(t)/EWP(b)/EWA(c) JD/LHB | |
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| ACC NR: AP6000183 SOURCE CODE: UR/0032/65/031/012/1483/1485 | |
| AUTHOR: Anan'yeva, G. V.; Smirnova, Z. F. | |
| ORG: none 21,444 TITLE: X-ray investigation of the single crystal aggregates | |
| SOURCE: Zavodskaya laboratoriya, v. 31, no. 12, 1965, 1483-1485 | |
| TOPIC TAGS: single crystal, x ray, lattice defect, sapphire, ruby, fluorite, goniometer, crystal structure, x ray investigation, x ray spectrum ABSTRACT: The mosaic structure of single crystals was examined with a URS-50I diffractometer. The object of the study was to determine the feasibility of a detailed investigation of structural imperfections in single crystals of sapphire, ruby and fluorite. X ray spectra of single crystals were taken by placing them in a URS-50I diffractometer in such a way that the single crystal surface coincided with the axis of the GUR-3 goniometer. The crystal surface was illuminated with an x ray beam with 5-9 degree horizontal deflection and an unlimited vertical deflection. The x ray photographs were taken successively during 2-3° vertical rotation of the crystal sample with respect to the axis of the GUR-3 goniometer. During the rotation of a sample composed of randomly oriented particles of single crystals, various particles pass | |
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BERZAK, M.A., BRATEL:, I.N., KAGANOVA, Ye.I., PLOTITSINA, K.M., SMIRNOVA, Z.M.

Experience in the detection of cardiovascular pathology in the compound examination of thoracic organs in rural population. Sov. med. 28 no.7:93-96 Jl 164. (MIRA 18:8)

1. Bol'shechernigovskaya sel'skaya bol'nitsa (glavnyy vrach 2.M. Smirnova) Kuybyshevskoy oblasti. Nauchnyy rukovoditel' - prof. V. V. Zodiyev.

LUKASHENKO, N.P.; BRZHESKIY, V.V.; SMIRNOVA, Z.M.

Study on Alveococcus multilocularis (Echinococcus multilocularis) Leuckart, 1863 chromosomes. Preliminary report. Med. paraz. i paraz. bol. 34 no.3:351-352 My-Je '65.

(MIRA 18:7)

1. Institut meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye.I. Martsinovskogo Ministerstva zdravookhraneniya SSSR, Moskva.

SMIRNOVA, Z.S.

Results of the investigation of the air of an oil and gas area as to the presence of hydrocarbon-oxidizing bacteria. Mikrobiologiia 32 no.1:128-130 *63 (MIRA 17:3)

1. Vsesoyuznyy naculmo-isoledovateliskiy geologo-razwedochnyy neftyanoy institut, Moskva.

| AUTHOR: Sarzhevskaya, V. P.; Kornev, K. A.; Smirnova-Zamkova, S. Ye. TITLE: Polyamides with aromatic and heterocyclic rings in the chain.IX, Polyamides based on furan-2,5- and thiophene-2,5-dicarboxylic acids and some aryl-aliphatic diamines SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 5, 1964, 499-502 TOPIC TAGS: furan polyamide, thiophene polyamide, aromatic ring, heterocyclic ring, furan ring, thiophene ring, aliphatic diamine ABSTRACT: The authors refer to their previous work, where they ascertained that the substitution of the furan for the thiophene ring in the acid component results in notably lowered melting point of polyamides based on aliphatic diamines. The present article is a study of the same situation with aryl-aliphatic diamines. Polyamides were prepared by interphase polycondensation from hydrochloric salts of aryl-aliphatic diamines and chloroanhydrides of furan-2,5- and thiophene-2,5- | UTHOR: Sarzhevskaya, V. P.; Kornev, K. A.; Smirnova-Zamkova, S. Ye. ITIE: Polyamides with aromatic and heterocyclic rings in the chain.IX, Polyamides ascd on furan-2,5- and thiophene-2,5-dicarboxylic acids and some aryl-eliphatic diamines OURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 5, 1964, 499-502 OPTC TAGS: furan polyamide, thiophene polyamide, aromatic ring, heterocyclic ring, curan ring, thiophene ring, aliphatic diamine UBSTRACT: The authors refer to their previous work, where they ascertained that the substitution of the furan for the thiophene ring in the acid component results in notably lowered melting point of polyamides based on aliphatic diamines. The present article is a study of the same situation with aryl-aliphatic diamines. Polyamides were prepared by interphase polycondensation from hydrochloric salts of colyamides were prepared by interphase polycondensation from hydrochloric salts of colyamides were prepared by interphase polycondensation from hydrochloric salts of colyamides were prepared by interphase polycondensation from hydrochloric salts of colyamides were prepared by interphase polycondensation from hydrochloric salts of colyamides were prepared by interphase polycondensation from hydrochloric salts of colyamides were prepared by interphase polycondensation from hydrochloric salts of colyamides were prepared by interphase polycondensation from hydrochloric salts of colyamides were prepared by interphase polycondensation from hydrochloric salts of colyamides were prepared by interphase polycondensation from hydrochloric salts of colyamides were prepared by interphase polycondensation from hydrochloric salts of colyamides were prepared by interphase polycondensation from hydrochloric salts of colyamides and colyamides were prepared by interphase polycondensation from hydrochloric salts of colyamides and colyamides are colyamides were prepared by interphase polycondensation from hydrochloric salts of colyamides are colyamides and colyamides are colyamides and colyamides are co | ACCESSION NR: AP4037056 | s/0073/64/030/005/0499/0502 |
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| TITIE: Polyamides with aromatic and heterocyclic rings in the chain.IX, Polyamides based on furan-2,5- and thiophene-2,5-dicarboxylic acids and some aryl-aliphatic diamines SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 5, 1964, 499-502 TOPIC TAGS: furan polyamide, thiophene polyamide, aromatic ring, heterocyclic ring, furan ring, thiophene ring, aliphatic diamine ABSTRACT: The authors refer to their previous work, where they ascertained that the substitution of the furan for the thiophene ring in the acid component results in notably lowered melting point of polyamides based on aliphatic diamines. The present article is a study of the same situation with aryl-aliphatic diamines. Polyamides were prepared by interphase polycondensation from hydrochloric salts of aryl-aliphatic diamines and chloroamhydrides of furan-2,5- and thiophene-2,5- | ITIE: Polyamides with aromatic and heterocyclic rings in the chain.IX, Polyamides ased on furan-2,5- and thiophene-2,5-dicarboxylic acids and some aryl-aliphatic diamines OURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 5, 1964, 499-502 OPTC TAGS: furan polyamide, thiophene polyamide, aromatic ring, heterocyclic ring, curan ring, thiophene ring, aliphatic diamine UBSTRACT: The authors refer to their previous work, where they ascertained that the substitution of the furan for the thiophene ring in the acid component results in notably lowered melting point of polyamides based on aliphatic diamines. The previous work article is a study of the same situation with aryl-aliphatic diamines. Polyamides were prepared by interphase polycondensation from hydrochloric salts of aryl-aliphatic diamines and chloroanhydrides of furan-2,5- and thiophene-2,5- | | ; Smirnova-Zamkova, 8. Ye. |
| TOPIC TAGS: furan polyamide, thiophene polyamide, aromatic ring, heterocyclic ring, furan ring, thiophene ring, aliphatic diamine ABSTRACT: The authors refer to their previous work, where they ascertained that the substitution of the furan for the thiophene ring in the acid component results in notably lowered melting point of polyamides based on aliphatic diamines. The present article is a study of the same situation with aryl -aliphatic diamines. Polyamides were prepared by interphase polycondensation from hydrochloric salts of aryl -aliphatic diamines and chlorosahydrides of furan-2,5- and thiophene-2,5- | COPIC TAGS: furan polyamide, thiophene polyamide, aromatic ring, heterocyclic ring, turan ring, thiophene ring, aliphatic diamine ABSTRACT: The authors refer to their previous work, where they ascertained that the substitution of the furan for the thiophene ring in the acid component results in notably lowered melting point of polyamides based on aliphatic diamines. The present article is a study of the same situation with aryl -aliphatic diamines. Polyamides were prepared by interphase polycondensation from hydrochloric salts of aryl -aliphatic diamines and chloroanhydrides of furan-2,5- and thiophene-2,5- | PITIE: Polyamides with aromatic and heteropassed on furan-2,5- and thiophene-2,5-dicar | evelic rings in the chain. IX, Polyamides |
| TOPIC TAGS: furan polyamide, thiophene polyamide, aromatic ring, heterocyclic ring, furan ring, thiophene ring, aliphatic diamine ABSTRACT: The authors refer to their previous work, where they ascertained that the substitution of the furan for the thiophene ring in the acid component results in notably lowered melting point of polyamides based on aliphatic diamines. The present article is a study of the same situation with aryl -aliphatic diamines. Polyamides were prepared by interphase polycondensation from hydrochloric salts of aryl -aliphatic diamines and chlorosahydrides of furan-2,5- and thiophene-2,5- | COPIC TAGS: furan polyamide, thiophene polyamide, aromatic ring, heterocyclic ring, turan ring, thiophene ring, aliphatic diamine ABSTRACT: The authors refer to their previous work, where they ascertained that the substitution of the furan for the thiophene ring in the acid component results in notably lowered melting point of polyamides based on aliphatic diamines. The present article is a study of the same situation with aryl -aliphatic diamines. Polyamides were prepared by interphase polycondensation from hydrochloric salts of aryl -aliphatic diamines and chloroanhydrides of furan-2,5- and thiophene-2,5- | SOURCE: Ukrainskiy khimicheskiy zhurnal, | v. 30, no. 5, 1964, 499-502 |
| | b-XATAnementamino, 512-75 | ABSTRACT: The authors refer to their prevate substitution of the furan for the thior in notably lowered melting point of polyam present article is a study of the same sit Polyamides were prepared by interphase polyaryl -aliphatic diamines and chloroanhydria | ious work, where they ascertained that phene ring in the acid component results ides based on aliphatic diamines. The uation with aryl -aliphatic diamines. ycondensation from hydrochloric salts of des of furan-2,5- and thiophene-2,5- |

GROMOV, S.A.; SMIRNOVA, Z.A.

Clinical aspects and histopathology of aneurysms in the vessels of the brain. Vop. psikh. i nevr. no.9:118-123 (MIRA 17:1)

 Leningradskaya oblastnaya klinicheskaya bol'nitsa (glavnyy vrach - A.P. Yegorova).

KOROLEV, Aleksey Vasil'yevich; SHEKHTMAN, Favel aleksanicovien; VOL'FSON, F.I., retsenzent; YERMAKOV, N.P., red.; SMIRNOVA, Z.A., ved. red.

[Structural conditions governing the distribution of postmagmatic ores] Strukturnye usloviia razmeshcheniia poslemagmaticheskikh rud. Moskva, Nedra, 1965. 506 p. (MIRA 18:4)

| | Partial équil solutions. 2 (Hydroflu | ibrium pressure hur.prikl.khim. oric acid) | s of HF, SiF ₄ , 36 no.2:237-2 (Silicon fl | and H ₂ O abov 41 F ¹ 63. uoride) | re aqueous (MIRA 16:) (Vapor pi | 3) ressure) |
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SMIRNOVA, Z.G.; ILLARIONOV, V.V.; VOL'FKOVICH, S.I.

Heats of formation of fluorapatite, hydroxylapatite, and tricalcium phosphates (- and - modifications). Zhur. neorg. khim. 7 no.8:1779-1782 Ag '62. (MIRA 16:6)

1. Nauchno-issledovatel'skiy institut udobreniy i insektofungisidov.

(Apatite) (Hydroxylapatite) (Calcium phosphate) (Heat of formation)

SMIRNOVA, Z.I.

Experience in using various types of resilient covering. Tekst.

prom. 16 no.9:24-26 S '56. (MIRA 9:12)

1. Zaveduyushchiy TSentral'noy laboratoriyey Glavivkhlopproma.

(Spinning machinery)

Testing reconditioned polyvinyl chloride couplings. Tekst.prom. 18
no.4:56-57 Ap '59. (MIRA 11:4)

1. Zaveduyushchiy TSentral'noy laboratoriyey pri tekstil'nom upravlenii Ivanovskogo sovnarknoza. (Spinning machinery.-Maintenance and repair)

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HELYAYEVSKIY, N.A.; VARGIN, N.I.; IVANOV, Yu.A.; SMIRNOVA, Z.I.

Results of the conference of geologists of the European part of the U.S.S.R. Sov. geol. 2 no.6:138-142 Je '59. (MIRA 12:12)

l.Ministerstvo geologii i okhrany nedr SSSR. (Geology)

SMIRNOVA, Z.I.

Necessity for increasing the effectiveness of geophysical prospecting for ore deposits. Sov.geol. 4 no.11:174-177 N '61. (MIRA 14:11)

1. Ministerstvo geologii i okhrany nedr SSSR. (Prospecting)

MATVEYEVA, N.H.; SMIRNOVA, Z.M.; KUSTOVA, Z.M.; VASIL'YEVA, M.V.; GEL'CHINSKIY, B.Ya.; OZEROV, D.K.; MANUKHOV, A.V.; GOL'TSMAN, F.M.; PETRASHEN', G.I., red.; VOLKHOVER, R.S., tekhn. red.

[Papers on the quantitative study of seismic wave dynamic] Materialy kolichestvennogo izucheniia dinamiki seismicheskikh voln. Pod. rukovodstvom i red. G.I.Petrashen'. [Leningrad] Izd-vo Leningr. univ. Vol. 1. 1957. 420 p. Vo.2. 1957. 152 p. (MIRA 11:2)

1. Akademiya nauk SSSR. Matematicheskiy institut, Leningradskoye otdeleniye.

(Seismometry)

AGEYEV, N.V.; SMIRNOVA, Z.M.

Stability of the beta phase in titanium-manganese alloys. Titan
i ege splavy no. 1:17-24 '58.

1. Institut metallurgii AM SSSR.

(Titanium-manganese alloys-Metallography)
(Phase rule and equilibrium)

5(2), 18(4)

Ageyev, N. V., Smirnova, Z. K.

sov/78-4-5-26/46

AUTHORS:

TITLE:

Conditions for the Stabilization of the 3-Phase

in Alloys of Titanium-Molybdenum-Manganese (Usloviya stabilizatsii A-fazy v splavakh titan-molibden-

-marganets)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 5,

pp 1100-1105 (USSR)

ABSTRACT:

The conditions for the stabilization of the phase and the stability of the metastable state in three-component alloys consisting of magnesium-thermal titanium with molybdenum and manganese were investigated. For the purpose of producing the alloys, magnesium-thermal titanium, electrolytic manganese, and molybdenum were used as initial materials. The compositions of the initial materials are given in table 1. The alloys were produced in an electric arc furnace with tungsten electrodes in a helium atmosphere. The alloys were investigated by metallographical and X-ray analyses. Hardness and microhardness were determined. Figure 1 shows the phase composition of the titanium-molybdenum-mangarese alloys. The phase composition of titanium-molybdenum-manganese alloys

Card 1/4

Conditions for the Stabilization of the B.Phase in Alloys of Titanium-Molybdenum-Manganese

507/78-4-5-26/46

hardened at temperatures of 700°, 800°, 900° and 1000° is shown by figure 2 (a - g). Stabilization of the B-phase in hardened alloys was investigated; a diagram was constructed and is shown in figure 3. In alloys containing a minimum of 3.76% manganese and 26.95% molybdenum, or a minimum of 3.76% manganese and 26.95% molybdenum, or 11.78% molybdenum and 15.89% manganese the B-phase is stabilized by hardening at 700°. In other alloys, which were hardened at 700°, the structure of the X- and B-phase is formed. In alloys with the minimum content of 3.61% manganese and 12.81% molybdenum and 7.63% manganese and 1.59% molybdenum the B-phase is stabilized by hardening at 800°. In alloys with a lower content of molybdenum and manganese the structure of the X-phase is formed by hardening at 800°. The microstructure of these alloys is shown by figure 4 (a - b). In alloys with 3.19% manganese and 9.51% molybdenum, 4.50% manganese and 1.43% molybdenum, 5.02% manganese and 4.39% nolybdenum the P-phase is formed.

Card 2/4

CIA-RDP86-00513R001651710007-3

Conditions for the Stabilization of the (3-Phase in Alloys of Titanium-Molybdenum-Manganese

sov/78-4-5-26/46

The ω -phase was uniquely determined by X-ray analyses and by means of an electron microscope. The X-ray pictures of the alloys of titanium with 7.63 % manganese and 1.59 % molybdenum after hardening at 8000 are shown by figure 5, and those of alloys of titanium with 5.02 % manganese and 4.59 % molybdenum after hardening at 900° are shown by figure 7. On the X-ray pictures the lines of the W-phase are visible. In alloys containing 2.08 % manganese and 1.95 % molybdenum, and 3.07 % manganese and 3.74 % molybdenum the \(\rho\)-phase decays into the \(\chi\)-phase by hardening at 900°. The X-phase vanishes by hardening of the samples at a temperature of 1000° C. The stability of the β -phase when heated within the temperature interval of 100 - 600° was investigated. The microstructure of the titanium alloys containing 2.08 % manganese and 1.95 % molyodenum, hardened at 900° and 1000° is shown by figure 8. Here the occurrence of the \(\beta\)-phase is particularly marked. The microstructure

Card 3/4

Conditions for the Stabilization of the ()-Phase in Alloys of Titanium-Molybdenum-Manganese

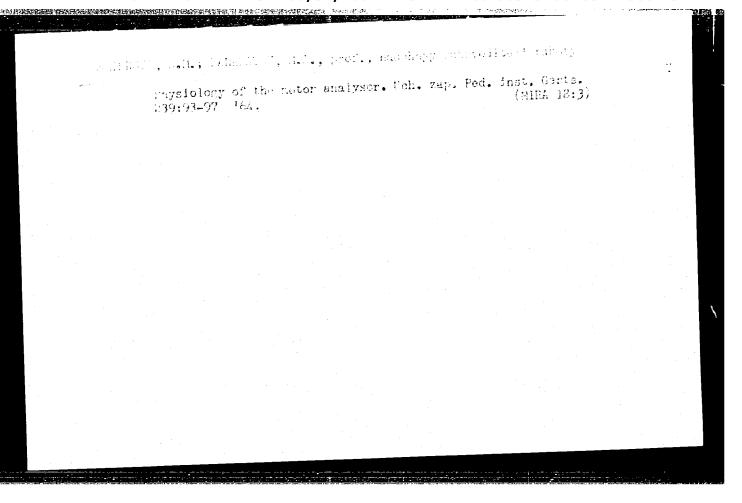
SOV/78-4-5-26/46

of hardened titanium alloys containing 7.65 % manganese and 4.43 % molybdenum after heating for 64 hours at 600° and for 64 hours at 400° is shown by figure 10. The stability of the \$\beta\$-phase and the variation of hardness in titanium-molybdenum-manganese alloys are shown by figure 9 (a.e.e.). The variation of the lattice parameter and the hardness of the \$\beta\$-phase by heating up to 300° and 500° is shown by figure 11 (a - b). In titanium alloys with 17.87 % manganese and 4.56 % molybdenum the \$\beta\$-phase becomes stabilized when heated from 100 - 500° in the course of 100 hours. There are 11 figures, 1 table, and 5 references, 2 of which are Soviet.

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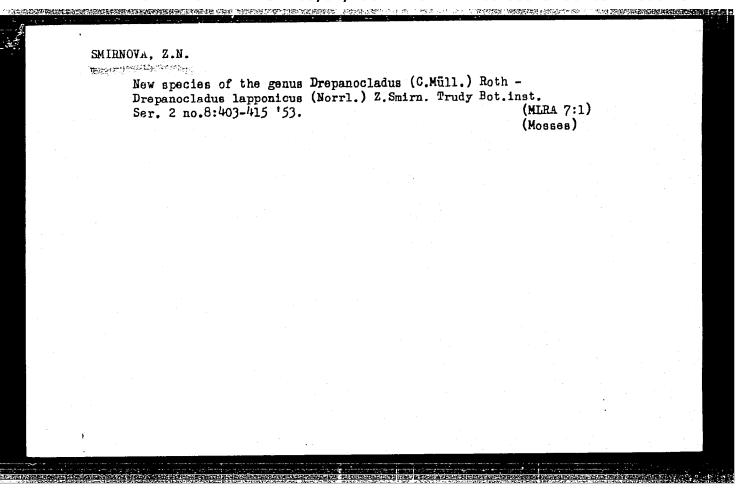
February 11, 1958

Card 4/4



- 1. SMIRNOVA, Z. N.
- 2. USSR (600)
- 4. Mosses Kuril Islands
- 7. New species of the genus Drepanocladus from the Kuril Islands. Bot. mat. Otd. spor. rast. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.



SMIRNOVA, Z.N. New varieties of species of the genus Drepanocladus (C.Müll.) Roth (Formse specierum novae generis Drepanocladus (C.Müll.) Roth). Bot.mat.Otd.spor.rast. 9:188-198 My '53. (MLRA 7:2) (Mosses)

BOGDANOV, P.L., professor [author]; SAVICH-LYUBITSKAYA, L.I.; SMIRNOVA, Z.N. [reviewers].

"Guide to forest sporophytes of the grass and moss cover." P.L.Bogdanov. Reviewed by L.I.Savich-Liubitskaia, Z.N.Smirnova. Bot.zhur. 38 no.4:613-617 J1-Ag '53. (MLRA 6:9)

1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR, Leningrad (for Savich-Lyubitskaya and Smirnova).

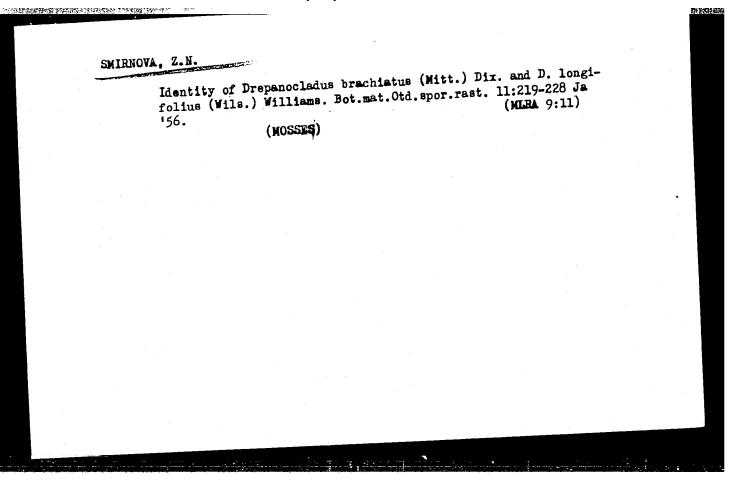
(Bogdanov, P.L.) (Mosses)

SMIRMOVA, Z. II. --

Dissertation: "The Genus Drepanocladus (C. Muell) Noth." (Short summary given.) Dr Biol Sci, Inst of Botany imeni V. L. Komarov, Acad Sci USSR, Jan-Mar 54 (Vestnik Akademii Nauk, Moscow, Aug 54)

SO: SUM 393 28 Feb 1955

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| Does Drepanocladus uncinatus (Hedw). Warnst.deserve to be established as an independent genus? Bot.zhur 41 no.10:1499-1503 0 '56. (MIRA 10:1) | | | | | | |
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ABRAMOVA, A.L.; SMIRNOVA, Z.N.

L.I. Savich-Liubitskaia; on her 70th birhday. Bot.zhur. 41 no.10:1555(MLRA 10:1)

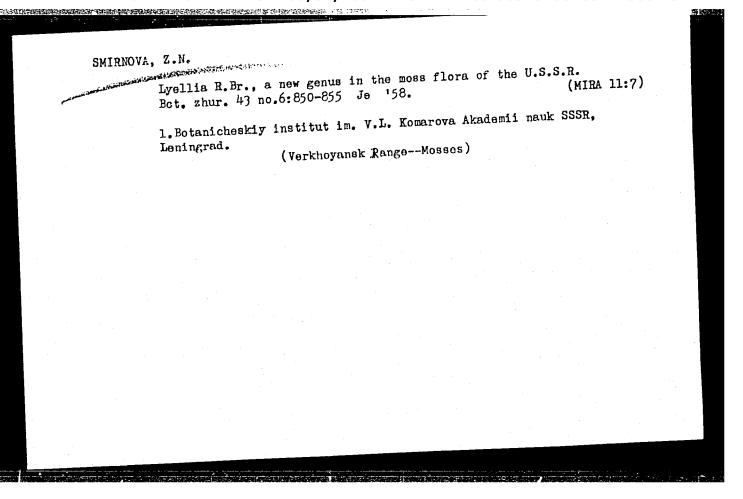
1. Botanicheskiy institut imeni V.L.Komarova Akademii nauk SSSR,
Leningrad.

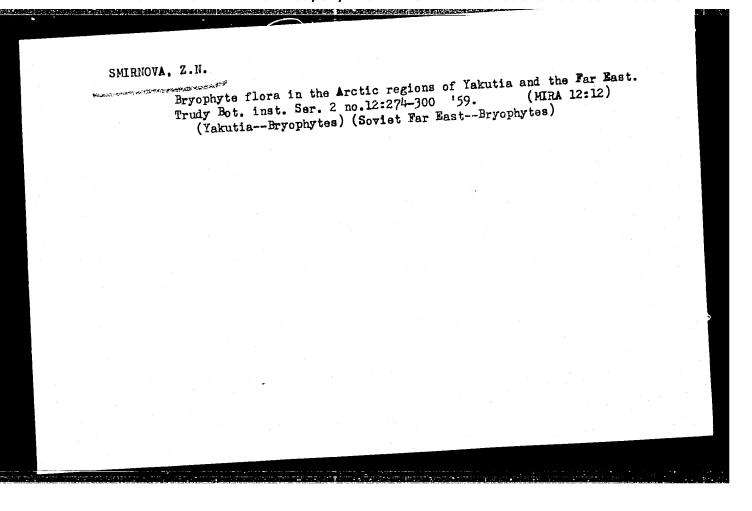
(Savich-Liubitskaia, Lidiia Ivanovan, 1886-)
(Bibliography-Mosses)

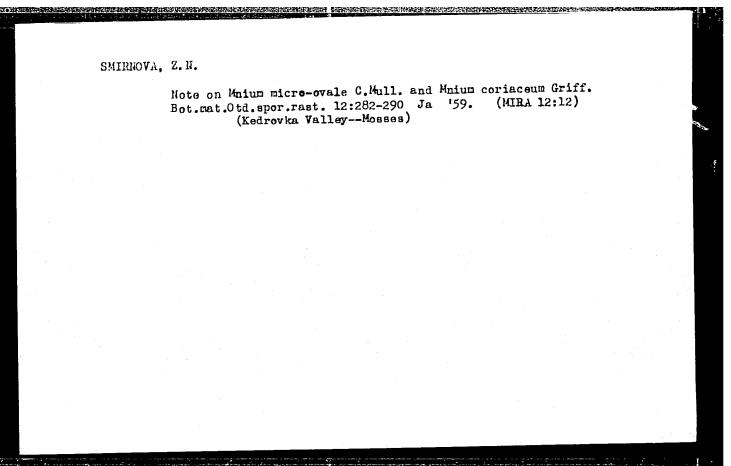
SMIRNOVA, Z.N.

"On the spore morphology of some Sphagnum species" (from "The Bryologist," 58, no.4, 1955). Bot.zhur. 42 no.3:479-480 Mr '57.

1.Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR, Leningrad. (Mosses) (Spores (Botany))







SAVICH-LYUBITSKAYA, L.I., doktor biol.nauk; SMIRNOVA, Z.N., doktor biol.nauk

A new variant of Bryum Korotkévicziae Sav.-Ljub.et Z.Smirn. Inform.biul.Sov.antark.eksp. no.17:2527 60. (MIRA 13:12)

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(Bunger Hills region-Mosses)

ABRAMOVA, A.L.; SAVICH-INUBITSKAYA, L.I.; SMIRNOVA, Z.N.; SAVICH, V.P., doktor biolog. nauk, prof., zasl. deyatel nauki RSFSR, otv. red.; BOCHEVER, V.T., tekhn. red.

[Guide to the frondiferous mosses of the Arctic regions of the U.S.S.R.] Opredelitel listostebel nykh mkhov Arktiki SSSR. Pod red. L.I.Savich-Liubitskoi. Moskva, Izd-vo Akad.nauk SSSR, 1961. 714 p.

(Arctic regions-Mosses)

CIA-RDP86-00513R001651710007-3" APPROVED FOR RELEASE: 08/31/2001

SMIRNOVA, Z.N.

New forms of Drepanocladus Sendtneri (Schimp.) Warnst. and
Dr. aduncus (Hedw.) Mönkem. Bot. mat. Otd. spor. rast. 14:
268-275 Ja'61.

(MIRA 17:2)

SMIRNOVA, Zoya Nikolayevna; PEN'KOVA, G.A., red.;

[Fodder lichens in the Far North of the U.S.S.R.; a
concise guide] Kormovye lishainiki Krainego Severa SSSR;
concise guide] Kormovye lishainiki Krainego Severa SSR;
kratkii opredelitel'. Leningrad, Sel'khozizdat, 1962. 69 p.
(MIRA 17:3)

SAVIGH-LYUBITCKAYA, L.I.; SMIRHOYA, A.V.

An endemic moss of Antarctica, Sarv meanum glaciale (Hock, fil. et Wils.) Card. et Bryhn. Isal. fauny mor. 1:205-300 (62. (MIRA 17:9)

1. Botanicheski; institut AN STOL.

| | Sections of the Otd. spor. rast. | genus Drepanocl , 15:170-185 Ja (Drepanocladu | 162. s) | uite) hour | (MIRA 15:10) | |
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SAVICH-LYUBITSKAYA, L.I.; SMIRNOVA, Z.N.

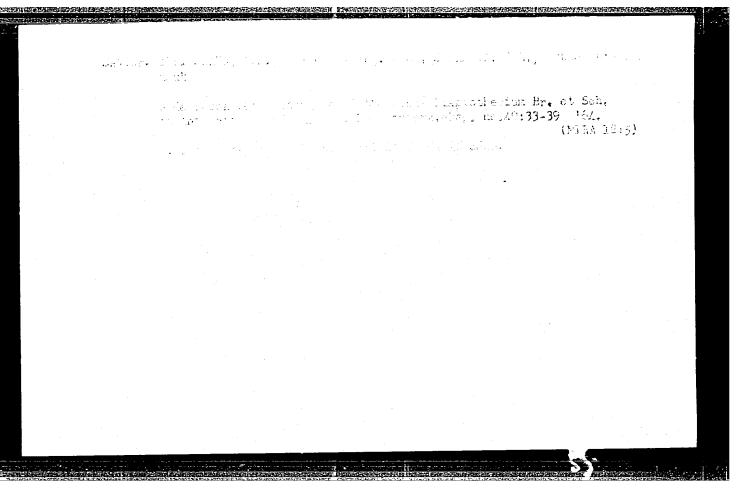
Representatives of the genus Pottia Fuernr. in Antarctica. Bot. mat. Otd. spor. rast. 16:188-195 '63. (MIRA 16:10)

SAVICH-LYUBITSKAYA, L. I.; SMIRNOVA, Z. N.

Biology and geography of Brycerythrophyllum recurvirostre (Hedw.) Chen, a new species in the moss flora of Antarctica. Bot. zhur. 48 no.3:350-361 Mr ¹63. (MIRA 16:4)

1. Botanicheskiy institut imeni V. L. Komarova AN SSSR, Leningrad.

(Antarctic regions-Mosses)



SMIRNOVA, Z.O., kand.med.nauk

Medicinal prevention of excessive hemorrhages in the placental and early pdstpartum periods. Ped., akush. i gin. 24 no.1: 49-51'62. (MIRA 16:8)

1. Otdel akusherstva i ginekologii (zav. - kand.med.nauk L.T. Volkova) Khar'kovskogo nauchno-issledovatel'skogo instituta okhrany materinstva i detstva (direktor - kand.med.nauk O.I. Kornilova).

(HEMORRHAGE, UTERINE)

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15.8106

S/190/60/002/007/010/017 B020/B052

AUTHORS:

Smirnova, Z. S., Serenkov, V. I.

TITLE:

The Mechanism of Thermal Hardening of Phenol-formaldehyde

Resins

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 7,

pp. 1067-1070

TEXT: It was the purpose of this paper to study the behavior of hydroxyl groups in phenol by means of a stable isotope, during the hardening process of resolic phenol-formaldehyde resins. Therefore a resolic phenol-formaldehyde resin with a molar ratio of ${}^{6}{}^{H}_{5}{}^{OH}$: ${}^{CH}_{2}{}^{O}$ = 6: 7 was pro-

duced in the presence of catalyst NaOH. The unreacted phenol and formaldehyde were precipitated by dissolving the resin in alcohol 8-10 times, and by pouring it into distilled water. At the same time, low-molecular condensation products were removed. Then the resin was dried until weight constancy was reached. It was analyzed and its content of free phenol and formaldehyde, hydroxyl and methylol groups, and the rate of hardening at

Card 1/3

The Mechanism of Thermal Hardening of Phenolformaldehyde Resins

87028 \$/190/60/002/007/010/017 B020/B052

160°C were determined. The analyses were carried out according to the method of the analytical laboratory of NIIplastmass (Mauchno-issledovatel'-skiy institut plasticheskikh mass (Scientific Research Institute of Plastics)), and the results are given. On the basis of the papers by A. I. Brodskiy (Ref. 2), the hydrogen and the hydroxyl group of phenol was replaced by deuterium through rearrangement of the hydrogen. A resin was obtained with a 38-40% hydrogen substitution in the hydroxyl group of phenol. The deuterium content in water during the combustion of the resin was 0.8%. The results of the deuterium determination carried out by the spot method for the determination of its concentration variation during the resin hardening process (Table 1) show that water with an increased D₂0 content is separated during the hardening of phenol-formaldehyde

resols. The behavior of the hydroxyl groups of Novolak resins heated up to 350°C was also studied. Table 2 gives the change of the deuterium content in Novolak resins during heating. It shows that the hydroxyl group undergoes no changes when heated up to 180°C or even 250°C. Heating to 350°C increases the amount of liberated deuterium up to 19-20% of the original deuterium content in the resin. This is due to the noticeable

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The Mechanism of Thermal Hardening of Phenolformaldehyde Resins 5/190/60/06 E020/E052

S/190/60/002/007/010/017 E020/E052

destruction of the resin which also affects the hydroxyl groups. There are 2 tables and 13 references: 6 Soviet, 5 US, and 2 German.

ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass '

(Scientific Research Institute of Plastics)

SUBMITTED: March 15, 1960

Card 3/3

| 1. | KUZHETSOVA. | ν. | Α. | and | SMIRNOVA. | 2. | S. | |
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- 2. USSR (600)
- 4. Microorganisms
- 7. Effect of hydrocarbonic microflora on the composition of the gas specimen. [Abstract] Izv.Glav.upr.geol.fon. no. 3, 1947.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

- 1. KUZMATSOV, S. I. and KUZMETSOVA, V. A. and SMIRMOVA, Z. S.
- 2. USSR (600)
- 4. Microorganisms
- 7. Study of the processes of oxidation by bacteria of hydrocarbon gases under conditions of their diffusion through sedimentary rock. Izv.Glav.upr.geol.fon. no. 3, 1947.

9. Monthly List of Russian Accessions, Library of Congress, Harch 1953, Unclassified.

: USSR Country : Microbiology. Geological Activity of Microorganisms. Catogory :Ref Zhur-Siel., No 23, 1958, No 105687 Abs. Jour : Smirnova, Z. S. Author Institut. Determination of the Limit of Penetration of Bacteria Title From Clay Mortar into the Core of Different Rocks :Mikrobiologiya, 1957, 26, No 6, 745-749 Orig Pub. : Fluid from drilling a well during a search for oil Abstract contained a heterogeneous bacterial flora. In the clay mortar bacteria were found which exidize liquid and gaseous hydrocarbons and hydrogen, which form methane from carbon dioxide and hydrogen, and also from fatty acids, which reduce sulfates and which decompose tissue, etc. For the purpose of establishing the limit of penetration of bacteria into the core, a culture of Bacterium prodigiosum was introduced into circulating clay mortar; this becterium is usually not found in the core. It was established that the penetration of Bact. prodigiosum into the center of the core Card: 1/2 F-18

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001651710007-3"

SMIRNOVA, Z.S.

Effect of microbiological processes on gas composition in drilling muds. Trudy VNIGNI no.11:176-184 '58. (MIRA 13:1)

(Oil well drilling fluids) (Gas, Natural--Bacteriology)

TELEGINA, Z.P.; SMIRNOVA, Z.S.

Effect of organic substances on the intensity of propane oxidation in Mycobacterium lacticolum and Pseudomonas species. Trudy Inst. mikrobiol. no. 6:110-115 159. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy neftyanoy institut.
(MYCOBACTERIUM LACTICOLUM) (PSEUDOMONAS) (PROPANE)

SMIRNOVA, Z.S.

Control method for a microbiological study of deep-semted rocks.

Geol. nefti i gaza 5 no.12:49-52 D '61. (MIRA 14:11)

1. Vsescyuznyy nauchno issledovatel skiy geologorazvedochnyy neftyanoy institut.

(Rocks, Sedimentary - Bacteriology)

SMIRNOVA, Z.S.

Relation of methane- and propane-oxidizing bacteria to different nitrogen sources. Mikrobiologiia 31 no.6:980-983 N-D '62. (MIRA 16:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy neftyanoy institut, Moskva.

(MYCOBACTERIUM) (PSEUDOMONAS) (NITROGEN)

PATRIKEYEV, V.V.; SMIRNOVA, Z.S.; MAKSIMOVA, G.I.

Some biological properties of specifically formed silica gel.

Dokl. AN SSSR 146 no.3:707-709 S 162. (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. Představleno akademikom A.A.Balandinym. (Silica)

_ 40821-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM/GS S/0000/64/000/000/0062/0066 ACCESSION NR: AT5008846 AUTHOR: Smirnova, Z. S. TITLE: Specificity of propane oxidizing bacteria SOURCE: Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy geofiziki i geokhimii. Pryamyye metody poiskov nefti i gaza; neftepoiskovaya geokhimiya (Direct methods of prospecting for oil and gas; oil prospecting geochemistry). Moscow, Izd-vo Nedra, 1964, 62-66 TOPIC TAGS: bacteriology, propane, oxidation, geochemistry ABSTRACT: Most anomalies in the distribution of propane oxidizing bacteria in the subterranean waters of various regions of the USSR coincide with petroleum and natural gas deposits. The author presents the results of research performed in 1960 at VNIGNI. In analyzing the physiology of the nutrition of propane oxidizing bacteria, the following topics were studied: a) the relationship of propane oxidizing bacteria to the organic source of carbon; b) the development of propane oxidizing bacteria in propane in the presence of organic matter; c) oxidizing of propane after cultivation in organic media. Experiments with nine pure cultures of **Card 1/2**

L 40821-65 ACCESSION NR: AT5008846 propane oxidizing bacteria have shown that 1) propane oxidizing bacteria are capable of multiplying on many organic substances, but prefer propane as a source of carbon; 2) addition of organic matter lowers the oxidizing capacity of these bacteria; 3) after lengthy presence in an organic media propane oxidizing bacteria loose their propane oxidizing characteristics; 4) all these characteristics indicate the specificity of propane oxidizing bacteria. The use of these microorganisms as indicators in oil and natural gas prospecting is recommended. Orig. art. has: 3 tables. ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy geofiziki i geokhimii (All-Union Scientific Research Institute of Geophysics and Geochemistry) ENCL: 00 SUB CODE: ES, FP SUBMITTED: 10Sep64 NO REF SOV: 007 OTHER: 004

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Card 2/2

L 41610-65

ACCESSION NR: AT5008847

S/0000/64/300/000/0067/0071

AUTHOR: Smirnova, Z. S.

B+|

TITLE: Microbiological investigation of surface deposits of the Korobki natural gas and oil fields

SOURCE: Vsesoyuznyy nauchno-issledovatel skiy institut yadernoy geofiziki i geokhimii. Pryamyye metody poiskov nefti i gaza; neftepoiskovaya geokhimiya (Direct methods of prospecting for oil and gas; oil prospecting geochemistry). Moscow, Izd-vo Nedra, 1964, 67-71

TOPIC TAGS: microbiology, oil, gas, bacteriology, geochemistry

ABSTRACT: The author investigates the theory that soils bearing hydrocarbon gases are most suitable for the development of hydrocarbon exidizing bacteria. Microbiological research of soil and subsoil deposits was done at the Korobki natural gas and oil fields of the Volgograd oblast. It was found that: 1) the number of saprophitic bacteria in the surface deposits cannot serve as a criterion for the oil and gas bearing characteristics of that area since this number depends to a great extent on the organic matter in the soil and on several other factors (moisture, lithological composition of the soil, etc.); 2) the distribution of hydro-

Card 1/2

L 41610-65

ACCESSION NR: AT5008847

carbon exidizing bacteria in surface deposits is connected with oil and natural gas phenomena: propane exidizing bacteria are found only on the surface above oil and gas bearing strata, methane exidizing bacteria are more widely distributed, but are also predominant in the gas and oil bearing strata (3) the absence of propane and methane exidizing bacteria in the surface deposits beyond the oil and gas strata where a large number of bacteria are observed growing on sarcopeptone agar, indicates the specificity of hydrocarbon exidizing bacteria. Orig. art. has: 5 tables.

ASSOCIATION: none

SUBMITTED: 10Sep64

ENCL: 00

SUB CODE: ES, LS

NO REF SOV: 004

OTHER: 002

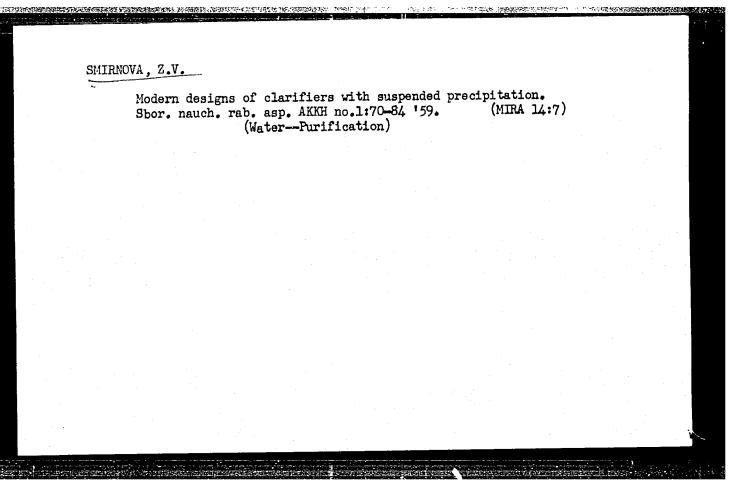
Card 2/2 JO

SMIRNOVA, Z.S.

Methods of quantitative assay of hydrocarbon exidizing bacteria. Mikrobiologiia 33 no.4:737-738 Jl-Ag 164. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy geofiziki i geokhimii (VNIIYaGG).

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Determination of the dispersity and moisture content of water-coal suspensions. Trudy IGI 19:138-143 '62. (MIRA 16 1) (Coal) (Sedimentation analysis) (Moisture—Measurement)

SMIRNOVA, Z. V.

Cand Med Sci - (diss) "Study of the function of the pancreas in patients with ulcerous affection of the stomach and the duc-denum and chronic gastritis before and after conservative treatment." Sverdlovsk, 1961. 11 pp; (Sverdlovsk State Med Inst); 260 copies; price not given; (KL, 7-61 sup, 262)

Kenaming, J. I. Bomminge, A.V.; Fargmon, M.I.; Chimble, J.V.

Prediction of Sinylesphthalenes. We flakhiming 5 no.6:35c-862
(MER 19:2)

1. Noncomos-isoledayo taltakiy inatitat monomerov diya sintaticheshaya kauchaka i Yaroslavakiy takhnologicheskiy institus.
Chimbled Jan. 26, 1965.

SMIRNOVA, Zh.V.

History of the "Serp i Molot" Metalitrgical Plant in Moscow.
Trudy Inst.ist.est.i tekh. 25:249-262 '59. (NIRA 13:4)

(Moscow--Metallurgical Plants)

KARABASH, A.G.; PEYZULAYEV, Sh.I.; SLYUSAREVA, R.L.; SOTHIKOVA, H.P.;
SHIRHOVA AVERUMA, N.I.; SAMSCHOVA, Z.N.; KRAUZ, L.S.; MCRCZOVA, G.G.;
HOMANOVICH, L.S.; SHIRHNKIMA, I.I.; LIPATOVA; V.M.; SAZANOVA, S.K.;
PUGACHEVA, L.I.; USACHEVA; V.P.; VORONOVA, Ye.F.; GORRACHEV, P.D.;
KOSTAREVA, F.A.; KOSTEREVA, N.T.; YELOVATSKAYA, A.I.; KUZNETSOVA, N.N.
Spectrochemical analysis of pure metals for impurities. Fiz.
sbor. no.4:556-562 '58.
(Spectrochemistry)

(Spectrochemistry)

CIA-RDP86-00513R001651710007-3 "APPROVED FOR RELEASE: 08/31/2001

AUTHORS:

32-24-6-19/44 Peyzulayev, Sh.I., Karabash, A.G., Krauz, L.S.,

Kostareva, F.A., Smirnova-Averina, N.I.,

Babina, F.L., Kondrag yera, L.I., Voronova, Ye.F.,

Meshkova, V.M.

TITLE:

Spectral Methods for the Determination of Admixture Traces

(Spektzal nyye metody opredeleniya sledov primesey).

I. Chemical Spectral Methods of Analyzing Strontium, Chromium, and Silicon (I. Khimiko-apektral nye metody analiza strontsiva, khroma i kremniya), II. The Quantitative Spectral Analysis of

Water and Microsamples on the Basis of Strontium Nitrate (II. Kolichestvennyy spektral nyy analiz wody i mikroobraztaov

na osnove nitrata strontsiya)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 6, pp 723-731 (USSR)

ABSTRACT:

In the course of the present work analysis methods are investigated in which sensitivity is increased by pravious enrichment and which make it possible to determine a larger number of admixtures. From the analysis of strontium, which is described in detail, it follows that determination is based upon a formation of strontium sulfate and that 18 elements can be determined by means of one

Card 1/4

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001651710007-3" Spectral Methods for the Determination of Admirtura Traces.

I. Chemical Spectral Methods of Analyzing Strontium.

Chromium, and Silicon. II. The Quantitativa Spectral Analyzis of Water and Microsamples on the Basis of Strontium Nitrate

32-24-6-19/44

spectrogram, in which case sodium is determined separately. Analysis sensitivity is shown by a table, and the preparation of samples and the spectral analysis itself are described. From the data concerning the determination of chromium it follows e.g., that chromium is volatilized in form of OrO2Cl2, that practically complete (99.7%) volatilization is attained at 200-2200, and that at the same time only arsenic, boron, germanium, tin, and mercury are removed. In the case of a low content of admixtures analysis was carried out already after the first concentration, whereas in the case of a higher persentage $(10^{-4} - 10^{-2}\%)$ also the second concentrate was examined. The analysis is described. The analysis of silicon is based upon its volatilization in form of fluorides; also in this case the concentrate of the admixtures is produced on the basis of a spectrally pure strontium sulfate, and also in this case 18 elements can be determined simultaneously by means of one spectrogram, sodium being determined separately. The process of analysis is described, and it is said, among other things, that the method was worked out in 1955 for the

Card 2/4

Spectral Methods for the Determination of Admixture Traces. I. Chemical Spectral Methods of Analyzing Strontium, Chromium, and Silicon. II. The Quantitative Spectral Analysis of Water and Microsamples on the Basis of Strontium Nitrate 32-24-6-19/44

determination of elementary silicon. II. The method is based upon application of the sample solution on to spectrally pure strontium nitrate powder, drying, and spectral analysis; it is possible, on the one hand, to examine the organic impurities existing in water, and, on the other, to analyze the composition of various microsamples. In the analysis of water it is possible to determine 12 elements by means of one spectrogram, including the ordinary admixtures found in water as well as corrosion products. The process of analysis is described as well as the manner in which etalons and the spectrally pure strontium nitrate are prepared. By the method described it is possible to determine 26 elements by the analysis of microsamples. Analysis is described, and it is said, among other things, that the relative sensitivity in determining components and admixtures depends on the weighed in portion of the microsample and the strontium nitrate; corresponding data are given by a table. By comparative determinations carried out on a strontium nitrate-

Card 3/4

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Spectral Methods for the Determination of Admixture Traces. I. Chemical Spectral Methods of Analyzing Strontium, Chromium, and Silicon. II. The Quantitative Spectral Analysis of Water and Microsamples on the Basis of Strontium Nitrate

32-24-6-19/44

and beryllium oxide basis the fact was established that both varieties of the method work with a relative error of ± 15-20%, and that frequently a weighed portion of 0.1-50 mg is sufficient. There are 2 figures, 6 tables, and 14 references, 6 of which are Soviet.

- 1. Spectrum analyzers--Performance 2. Minerals--Analysis
- 3. Minerals--Determination 4. Water--Impurities 5. Water
- -- Spectra 6. Strontium nitrate spectrum-- Applications

Card 4/4

| | | ods of Determining Admix- Its: Truly, 12) 5,500 | tor of Chemical 7. Polyskova. | tallurgists, and | ning various ad- nany chemical, nnce methods of see methods have det scientific tories of the | reeralming 172 | | Sucretites 197 | s of Ottnisces 191 | of Autlanty. | Cantities of All | eral mation 224 | Lyrise De. 227 | of Spectral Imgeton and 236 | .I. Peyrulayev. 255 | od of Direct Kolyfodenum 265 | teion of Orygen ton Rethist 2d | | | | |
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| SETON SOW/4443 | | (Nethods of Deteriors: Its: Inul | Nap. Eds.: A.P. Vingrador, Academician, and D.I. Ryabinikov, Doctor of Chemical Sciences; Ed. of Publishing House: M.F. Volymetaj Tech. Eds.: T.T. Polymbors. | mis collection of articles is intended for chemists, metallurgists, and rs. | EMACE: The articles describe methods for detecting and determining various abstraces and their traces in pure seekla. Also discussed are many familiar, mirrores and their traces in pure seekla. Also discussed are many familiar, substitutes, sectional cold, spectrochemical, and luminessence activity of selftons seeks that these methods of many states that there are substitutes, and when now widely cut is reserved backgrounds for determining the section of the section | Analysis of Bismuth for Determining | Abaixtures Frank L. L. A. O. Karabah, St. I. Poytuleyry, 7. M. Lipatore, and V.S. Globys, The Signervaneurary Nethod of Determining Additiones in Nethillo History and its Conyonia | Signitora, S.I., and Ye.E. Gollitaria. Determination of Small Quentities of Feed to Messalic Sissus. | Surpakore, 5.11, set L.A. f. wwiston, Retermination of Admixtures of Calminose Calminose Street, and folid in Westerning Branch With the Aid of Dithinose | 'Storphore, S.I., and Ch.Ia. Erol'. Determination of Absistances of Astlancy, Fron. Manpasse, and foliumism in Mesuta | Determination of Small Quantities | Malyage, D.P., and R.V. Blynyer (decembed). Polarographic Determination of Copper Libraraes if Metallic Beamin | igna. Specinosnalytic De ta | Nymakery, 1.14., Tudi, Belynyr, and N.N., MynanovaNethods of Spectral Biographysics of Cadmiss, Antiancy, Bicach, Lend, and Tin in Imgates and in Nothensa | ürrdağlı, A.10., "N., İstab pora. N.I.; Salingra-Awrinda, and Ba.I., Poyudayev Desermination of Amazyures in Notfoldum maility Conjounds | Vanichter, D.J., Ta.P. Gönitzen, and L.V., Boriann, Mettod of Direct Defermination of Leal, Carbier, Dismuth, Antibony, and Tin in Molyndenum Mith Tab And of Gerillographic Polarography | hypopko, ruda, ya,N.,Chistralyra, sol Life, Kunin. desemination of drygen nod kteroget in daypthens nol in Chrolien by tiss Traum-duston Beliad (2) | • | | | |
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KARAHASH, A.G.; SAMSONOVA, Z.N.; SMIRHOVA-AVERINA, N.I.; PEYZULAYEV, Sh.I.

Impurities determination in molybdenum and its compounds. Trudy Komanal. khim. 12:255-264 '60.

(MGL) (MGL) (MGL) (Spectrum analysis)

(MGL) (MGL) (Spectrum analysis)

SMIRNOVA-GARAYEVA, N.V.

Effect of a protective forest plantation on the development of cotton plants. Bet. shur. 40 no.5:738-739 S-0 '55. (MLRA 9:4)

1. Krivereshskiy gesudarstvennyy pedagegicheskiy institut, g. Krivey Reg. (Cetten) (Windbreaks, shelterbelts, etc.)